

LESSLEY
"Strand Orientation Alignment In Strand
Coating Systems And Methods"
Atty. Docket No. 14120

Appl. No. 10/623,294
Confir. No. 4116
Examiner B. Lamb

Claims 1-13 (Canceled).

14. (Currently Amended) A strand coating system, comprising:
an adhesive dispensing device having an adhesive dispensing orifice;
a strand guide member;
a strand axial orientation aligning member coupled to the adhesive dispensing device,

the strand axial orientation aligning member positioned in substantial alignment with the adhesive dispensing orifice, the strand axial orientation aligning member disposed between the strand guide member and the adhesive dispensing orifice,

the strand axial orientation aligning member is a pin having an axis extending substantially transverse to [a direction in which] an axis along which [a] strand is drawn past the adhesive dispensing device[;

~~the strand axial orientation aligning member aligning the strand about its axis as the strand is drawn past the adhesive dispensing device].~~

Claim 15 (Canceled).

Claim 16 (Canceled).

17. (Previously Presented) The strand coating system of Claim 34, the strand axial orientation aligning member is a pin having an axis extending substantially parallel to a direction in which adhesive is dispensed from the adhesive dispensing orifice.

18. (Previously Presented) The strand coating system of Claim 14, the strand guide member is coupled to a module.

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19. (Previously Presented) The strand coating system of Claim 18, the strand guide member is a strand guide roller adjustably coupled to the module.

20. (Previously Presented) The strand coating system of Claim 14, the strand guide member includes a strand guide not aligned with the adhesive dispensing orifice and the strand axial orientation aligning member.

21. (Previously Presented) The system of Claim 20, the strand axial orientation aligning member is a pin having a recessed side portion.

22. (Previously Presented) A strand coating apparatus, comprising:
a module;
a fluid dispensing device having a fluid dispensing orifice, the fluid dispensing device coupled to an end of the module;
a plate coupled to a bottom of the module and extending beyond the end of the module to which the fluid dispensing device is coupled, the plate having an opening aligned with the fluid dispensing orifice,
a strand orienting pin protruding from a side of the plate opposite from a side of the plate on which the fluid dispensing device is located.

23. (Previously Presented) The apparatus of Claim 22,
a strand guide member coupled to the module;
the strand orienting pin located substantially between the strand guide member and the fluid dispensing orifice, the strand orienting pin offset relative to a path between the fluid dispensing orifice and the strand guide member.

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24. (Previously Presented) The apparatus of Claim 23, the strand guide member includes a strand guide groove, the strand orienting pin offset relative to a path between the fluid dispensing orifice and the strand guide groove.

25. (Previously Presented) The apparatus of Claim 24, the fluid dispensing device is an adhesive dispensing device having an adhesive dispensing orifice.

26. (Previously Presented) The system of Claim 22, the strand orienting pin having an axial dimension substantially parallel to a direction of the fluid dispensing orifice, the strand orienting pin having a recessed side portion.

27. (Previously Presented) A system for applying coating materials onto a strand, the system comprising:

an fluid dispensing device having a fluid dispensing orifice from which fluid is dispensed,

a strand guide member coupled to the fluid dispensing device, the strand guide for guiding a strand drawn past fluid dispensing orifice;

a strand orienting pin located between the strand guide member and the fluid dispensing orifice so that a strand drawn from the strand guide member over the fluid dispensing orifice is engaged with the strand orienting pin,

a module,

the fluid dispensing device coupled to an end of the module, the fluid dispensing orifice directed away from a bottom of the module, the bottom of the module non-parallel to the end of the module, the strand guide member coupled to the module.

Claim 28 (Canceled).

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29. (Previously Presented) The system of Claim 27,
a plate mounted on the bottom of the module and extending beyond the end
of the module to which the fluid dispensing device is coupled, the plate having an opening
aligned with the fluid dispensing orifice,
the strand orienting pin protruding from a side of the plate opposite from a
side of the plate on which the fluid dispensing device is located.

30. (Previously Presented) The system of Claim 29, the strand guide member
is a roller including a strand guide groove, the strand orienting pin offset relative to a path
between the fluid dispensing orifice and the strand guide groove.

31. (Previously Presented) The system of Claim 27, the fluid dispensing
device is an adhesive dispensing device.

Claim 32 (Canceled).

33. (Currently Amended) A strand coating system, comprising:
an adhesive dispensing device having an adhesive dispensing orifice;
a strand guide member;
a strand axial orientation aligning member coupled to the adhesive
dispensing device, the strand axial orientation aligning member having an axial dimension
substantially parallel to a direction of the fluid dispensing orifice, [aligning the strand
about its axis as the strand is drawn past the adhesive dispensing device,]

the strand axial orientation aligning member positioned in substantial
alignment with the adhesive dispensing orifice, the strand axial orientation aligning
member disposed between the strand guide member and the adhesive dispensing orifice,

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the adhesive dispensing device includes an adhesive dispensing nozzle apparatus coupled to a module,

the strand axial orientation aligning member coupled to the module.

34. (Previously Presented) A system for applying coating materials onto a strand, the system comprising:

an fluid dispensing device having a fluid dispensing orifice from which fluid is dispensed,

a strand guide member coupled to the fluid dispensing device, the strand guide for guiding a strand drawn past fluid dispensing orifice;

a strand orienting pin located between the strand guide member and the fluid dispensing orifice so that a strand drawn from the strand guide member over the fluid dispensing orifice is engaged with the strand orienting pin,

the strand orienting pin having an axial portion substantially parallel to a direction of the fluid dispensing orifice,

the axial portion having a recessed side portion within which a strand is captured when the strand is engaged with the strand orienting pin.